INDEX TO VOLUME I

[New names in **bold-face type**]

A

Alces shirasi, 20.
Allen, G. M., A bat new to the Japanese fauna, 139; An insular race of cotton rat from the Florida Keys, 235; Bats from Mount Whitney, California, 1; Bison remains from New England, 161; Hoy's shrew in Labrador, 139.
Allen, J. A., Note on Gueldenstaedt's names of certain species of Felidæ, 90; Preliminary notes on African carnivora, 23; review of Goldman's Mammals of Panama, 188; The technical names of two Colobus monkeys, 96.
Alopex hallensis, 121.
American Society of Mammalogists, organization meeting, 47; by-laws and rules, 49; second annual meeting, 199.
Anahyster, 23.
Anderson, R. M., review of Dall's Report on mollusks of Canadian Arctic expedition, 246; review of Rathbun's Report on decapod crustaceans of Canadian Arctic expedition, 246.
antelope, prong-horned, 128, 244.
Anthony, A. W., The wood rat as a harvester, 140.
Anthony, H. E., New rodents and new bats from Neotropical regions, 81.
Antrozous pacificus, 174.
Aonyx, 23, 24.
Arborimus, 243.
Ariela, 31.
Atilax, 26.

B

badger, California, 12.
Bailey, V., A new subspecies of beaver from North Dakota, 31; Identity of the bean mouse of Lewis and Clark, 70; Old and new horns of the prong-horned antelope, 128.
Baker, A. B., Breeding of the Brazilian tapir, 143.
Balæna mysticetus, 120.
Balænoptera velifera, 120.
Ballou, H. A., notice of his "Rats in the West Indies," 192.
bat, brown, 173.
  California leaf-nose, 172.
  California mastiff, 111.
  Georgian, 38.
  hoary, 11.
  interior long-legged, 4.
  large brown, 5.
  little California, 11.
  long-legged, 11.
  mastiff, 182.
  Mexican free-tail, 175.
  pale lump-nose, 174.
  pallid, 174.
  red, 87.
  silver-haired, 11.
  Tejon, 1, 173.
  white-edged, 2.
  Yuma, 173.
bear, black, 11.
  cinnamon, 11.
  polar, 121.
bears of Asia, 213.
beaver, 19, 31.
Berardius bairdii, 120.

bighorn, 20.
bison, 161.
Bison bison, 162.
Bos taurus, 163.
Bryant, H. C., The coyote not afraid of water, 87.
By-laws and rules, 49.

C

Cabrera, A., notice of his "Genera mammalium," 148.
Callorhinus alascanus, 121.
Callospermophilus chrysodeirus, 18.
Canis antarcticus, 34.
australis, 34.
estor, 87.
isodactylus, 35.
jubatus, 35.
lestes, 11.
Castor canadensis, 19.
missouriensis, **32.**
Cavia arequipæ, **34.**
pallidior, 34.
Cebus xanthosternos, 35.
Cervus canadensis, 20, 186.
mexicanus, 75
chipmunk, 94.
Klamath, 18.
Chrotopterus colombianus, **84.**
Chrysocyon brachyurus, 35.
Citellus columbianus, 17.
townsendii, 18.
Civettictis, 26.
Colobus ferruginosus, 97.
polycomus, 96.
Corynorhinus pallescens, 174.
cottontail, Washington, 20.
cougar, 240.
coyote, 87.
mountain, 11.
Crossarchus fasciatus, 28, 29.
obscurus, 30.

D

Dactylomys boliviensis, **82.**
dactylinus, 82, 84.
typus, 84.
Dall, W. H., notice of his "Report of the Canadian Arctic expedition—mollusks," 246.
Davis, J. J., notice of his "Contributions to a knowledge of the natural enemies of Phyllophaga," 44.
Dearborn, N., The fur situation, 144.
deer, northern Virginia, 130.
Pennant's Mexican, 75.
Rocky Mountain mule, 20.
deermouse, 134.
Delphinus occiduus, 100.
Dice, L. R., The mammals of southeastern Washington, 10.
Dipodomys brevinasus, **179.**
exilis, 178.
merriami, 178.
nitratoides, 178.
Dusicyon antarcticus, 34.

E

editorial comment, 47, 108, 159, 197, 250.
elk, American, 186.
Eptesicus fuscus, 5, 173.
Erethizon epixanthum, 17.
Eumops californicus, 111, 182.
Euphractus flavimanus, 33.
gilvipes, 33.
Eutamias amœnus, 18.
Evotomys saturatus, 14, 92.

F

Felis brasiliensis, 89.
caracal, 90.
griffithii, 89.
hippolestes, 13.
maraqua, 89.
ocelot, 88.
onca, 38.
pardalis, 88.
rufa, 91.
Fitzsimons, F. W., notice of his "Natural history of South Africa. Mammals," 246.
fox, red, 12.
white, 121.

G

Genetta victoriæ, 25.
Gidley, J. W., see Miller, G. S., and J. W. Gidley.
Gilmore, M. R., Food stored by the bean mouse, 157.
Glaucomys volans, 95.
goat, Missoula, 21.
Goldman, E. A., notice of his "Mammals of Panama," 188.
gopher, brown pocket, 16.
Columbian pocket, 16.
Grinnell, G. B., As to the wolverine, 182.
Grinnell, J., A new kangaroo rat from the San Joaquin Valley, California, 178; notice of his "California ground squirrels," 97.

H

Hall, H. M., and Joseph Grinnell, notice of their "Life-zone indicators in California," 245.
Hall, M. C., notice of his "The adult taenioid cestodes of dogs and cats, and related carnivores in North America," 44.
Hanna, G. D., Mammals of the St. Matthew Islands, Bering Sea, 118.
Harper, F., The Florida water-rat in Okefinokee Swamp, Georgia, 65.
Herpestes, 26, 27.
griseus, 29.
Hinton, M. A. C., notice of his "Report on the house rats of India, Burma, and Ceylon," 146.
Histiotus **inambarus, 85.**
Hollister, N., Dates of shedding of horns, 244; editorial comment, 47, 108, 159, 197, 250; notice of his "East African mammals in the U. S. National Museum," 43; review of Fitzsimon's Natural history of South Africa, 246.
Howell, A. B., A plea for more concise technical papers, 158; A second record of *Phenacomys albipes* in California, with a discussion of the species, 242; A supplementary note on cleaning skulls, 145; An easy method of cleaning skulls, 40; Contribution to the life-history of the California mastiff bat, 111; Microtus townsendi in the Cascade Mountains of Oregon, 141; Some Californian experiences with bat roosts, 169.
Howell, A. H., Death of Thomas M. Owen, 187; Description of a new race of the Florida water-rat, 79; Description of a new species of beach mouse from Florida, 237; Notes on the fox squirrels of southeastern United States, with description of a new form from Florida, 36; The Florida spotted skunk as an acrobat, 88.

I

Ichneumia, 26.
Ischyromys **parvidens, 73.**

J

Jackson, H. H., T., An apparent effect of winter inactivity upon distribution of mammals, 58; Diurnal nest-building by a wood rat, 241; review of Hall's Adult taenioid cestodes of carnivores in North America, 44; review of Davis's Contributions to a knowledge of the natural enemies of Phyllophaga, 44; The Georgian bat, *Pipistrellus subflavus*, in Wisconsin, 38; The second annual meeting of the American Society of Mammalogists, 199; The white-tailed jack rabbit, Lepus townsendii campanius, introduced into Wisconsin, 186.
jaguar, 38, 241.
Jewett, S. G., Notes on two species of Phenacomys in Oregon, 165.
Joleaud, L., notice of his "Les migrations des mammifères," etc., 190.

K

Kerodon, 34.

L

Lange, D., Notes on flying squirrels and gray squirrels, 243.
Lasionycetris noctivagans, 11.
Lasiurus borealis, 87.
Leptonyx, 24.
Lepus bairdii, 19.
campanius, 186.
townsendii, 19.
wallawalla, 19.
List of members, 201.
Little, L., Some notes concerning the mastiff bat, 182.
Lönnberg, E., notice of his "Remarks on some South American Canidæ," 149.
Lutra, 23.
lynx, 13.
Lynx rufa, 91.
ruffus, 13, 91.
rufus, 140.

M

Macrotus californicus, 172.
marmot, Montana hoary, 92.
pallid yellow-bellied, 17.
Marmota avara, 17.
nivaria, 92.
marten, 12.
Martes, 12.
Matthew, W. D., A new genus of rodents from the Middle Eocene, 168.
Mephitis major, 12.
putida, 140.
Melanarctos cavifrons, 230.
Merriam, C. H., Criteria for the recognition of species and genera, 6; Death of James M. Macoun, 187; Is the jaguar entitled to a place in the California fauna? 38; Why should every specimen be named? 41.
Micraonyx, 24, 25.
Microsciurus **septentrionalis, 81.**
Microsorex hoyi, 139.
Microtus, 11.
abbreviatus, 122.
arvicoloides, 94.
bairdi, 184.
Microtus canescens, 14.
cantwelli, 180.
mordax, 15.
oregoni, 180, 184.
pennsylvanicus, 185.
scalopsoides, 185.
townsendi, 141.
wahema, 72.
Miller, G. S., review of Ballou's Rats in the West Indies, 192; review of Cabrera's Genera mammalium, 148; review of Hinton's Report on the house rats of India, Burma, and Ceylon, 146; review of Joleaud's Les migrations des mammifères Américains et Africains, etc., 190; review of Lönnberg's Remarks on some South American Canidæ, 149; review of Neuville's De l'Extinction du Mammouth, 150.
Miller, G. S., and J. W. Gidley, A new fossil rodent from the Oligocene of South Dakota, 73.
mink, Pacific, 12.
mole, Scheffer, 11.
monkey, colobus, 96.
Monticavia, 34.
moose, 142.
Shiras, 20.
mouse, beach, 237.
bean, 70, 72, 157.
biting meadow, 15.
Blue Mountain jumping, 17.
Columbian pocket, 17.
dusky harvest, 13.
dusky red-backed, 14.
Gambel white-footed, 13.
gray grasshopper, 13.
gray meadow, 14.
Hall Island meadow, 122.
house, 15.
Northwest pocket, 16.
Oregon pocket, 16.
Rainier meadow, 180.
red-backed, 92.
sagebrush white-footed, 14.
white-headed beach, 239.

Mungos, 27.
Mus musculus, 15.
muskrat, Rocky Mountain, 15.
Mustela arizonensis, 12.
energumenos, 12.
lepta, 12.
Myotis **albicinctus, 2,** 3, 4.
altipetens, 3, 4, 5.
californicus, 11.
interior, 4, 5.
longicrus, 4, 11.
lucifugus, 1, 2, 3, 4, 5.
saturatus, 1, 2.
sociabilis, 1, 2, 5, 173.
subulatus, 3.
ussuriensis, 139.
yumanensis, 1, 2, 11, 173.

N

Neofiber alleni, 65, 79.
nigrescens, 79.
Neosorex navigator, 11.
Neotoma albigula, 91, 242.
occidentalis, 14, 91, 94.
orolestes, 233.
Neuville, H., notice of his "De l'Extinction du Mammouth," 150.
Nichols, J. T., Red bat and spotted porpoise off the Carolinas, 87.
Nycetris cinerea, 11.
Nyctinomus mexicanus, 175.

O

Odobenus divergens, 120.
Odocoileus borealis, 130.
hemionus, 20.
mexicanus, 77.
Ondatra osoyoosensis, 15.
Onychomys fuscogriseus, 13.
Orcinus orca, 120.
Oreamnos missoulæ, 21.
Osbornictis, 25.
piscivora, 25.
Osgood, W. H., Attacked by a cougar? 240; Names of some South American mammals, 43; review of Hollister's East African mammals in the U. S. National Museum, 43; The *Felis ocelot* of Hamilton Smith, 88; The status of Pennant's "Mexican deer," 75.
otter, clawless, 23.
Ovis canadensis, 20.

P

Palmer, W., review of Jordan and Gilbert's Fossil fishes of southern California. II, 100.
Paramys copei, 169.
delicatissimus, 168.
delicatus, 168.
Perodipus columbianus, 17.
Perognathus columbianus, 16, 17.
lordi, 16.
parvus, 16.
Peromyscus, 8.
albifrons, 238.
artemisiæ, 14.
gambelii, 13.
leucocephalus, 239.
leucopis, 185.
niveiventris, 238.
noveboracensis, 134.
oreas, 93.
phasma, 238.
polionotus, 237, 238.
rhoadsi, 238.
Phenacomys albipes, 165, 167, 242.
longicaudus, 165.
Phillips, J. C., Skull measurements in the northern Virginia deer, 130.
Phoca, 120.
Phocaena occiduus, 100.
Piliocolobus, 97.
Pipistrellus subflavus, 38.
porcupine, yellow-haired, 17.
porpoise, spotted, 87.
Procyon pacifica, 12.
Prodelphinus plagiodon, 87.
puma, Rocky Mountain, 13.

R

rabbit, Rocky Mountain snowshoe, 19.
Washington jack, 19.
western white-tailed jack, 19.
white-tailed jack, 186.

raccoon, Pacific, 12.
rat, bushy-tailed wood, 233.
Columbian kangaroo, 17.
cotton, 235.
Norway, 15.
western bushy-tailed wood, 14.
wood, 241.
Rathbun, M. J., notice of her "Report of the Canadian Arctic expedition—decapod crustaceans," 246.
Rattus norvegicus, 15.
recent literature, 43, 97, 146, 188, 245.
Reithrodontomys nigrescens, 13.
Reithroparamys, 168.

S

Saunders, A. A., The range of the hoary marmot in Montana, 92.
Scapanus schefferi, 11.
Sciurus avicennia, **37.**
carolinensis, 53.
douglasii, 93.
niger, 36.
richardsonii, 19.
rufiventer, 122.
seal, fur, 121.
hair, 120.
Selenarctos, 216.
formosanus, 223.
japonicus, 222.
leuconyx, 226.
macneilli, 220.
mupinensis, 219.
thibetanus, 218.
ussuricus, 220.
Seton, E. T., Acrobatic skunks, 140; Bobcats and wild turkeys, 140; Does the cuterebra ever emasculate its host? 94; English names of mammals, 104; Food of the red fox, 140; For a methodic study of life-histories of mammals, 67; Locality, date, and name with observations, 107; Migrations of the graysquirrel, 53; Notes on the breeding habits of captive deermice, 134; The jaguar in Colorado, 241; The mole-mouse, potato-mouse, or pine-mouse, 185.
Shaw, W. T., notice of his "Cost of a squirrel and squirrel control," 192.
shrew, Dobson, 11.
Hoy's, 139.
navigator, 11.
Shufeldt, R. W., A work on the comparative osteology of the Procyonidæ, 196.
Sibbaldus sulfureus, 120.
Sigmodon **exsputus, 236.**
Skinner, M. P., Measurements of an unusual elk head, 186.
skunk, Great Basin, 12.
Sorex dobsoni, 11.
Sowerby, A. de C., Notes on Heude's bears in the Sikawei Museum, and on the bears of Palæarctic eastern Asia, 213.
Spelæus, 216, 228.
cavifrons, 230.
leuconyx, 232.
melanarctos, 230.
piscator, 231.
Spilogale ambarvalis, 88.
squirrel, Columbian ground, 17.
flying, 95, 243.
fox, 36.
golden-mantled ground, 18.
gray, 53, 243.
mangrove fox, 37.
Richardson, 19.
Townsend ground, 18.
Stoddard, H. L., Nests of the western fox squirrel, 122; The flying squirrel as a bird killer, 95.
Sylvilagus nuttallii, 20.

T

Tanton, T. L., Depressions found on moose trails and their significance, 142.
tapir, Brazilian, 143.
Tapirus terristris, 143.
Taverner, P. A., The test of the subspecies, 124.
Taxidea neglecta, 12.

Taylor, W. P., A California record of Microtus oregoni bairdi, 184; A new meadow mouse from the Cascade Mountains of Washington, 180; A novel nesting place of the red-backed mouse, 92; review of Grinnell's California ground squirrels, 97; review of Hall and Grinnell's Life-zone indicators in California, 245; review of Shaw's The cost of a squirrel and squirrel control, 192; Rodent mountaineers, 93; The "general notes" column, 106; The wood rat as a collector, 91.
Tayra sinuensis, 35.
Thalarctos maritimus, 121.
Thomomys columbianus, 16.
fuscus, 16.
Tolypeutes matacus, 33.

U

Ursarctos mandchuricus, 226.
Ursus, 216, 223.
altifrontalis, 11.
arctos, 223.
beringianus, 227.
clarki, 226.
collaris, 224.
formosanus, 223.
isabellinus, 225.
japonicus, 222.
lagomyiarius, 225.
leuconyx, 232.
macneilli, 220.
mandchuricus, 226.
melanarctos, 230.
Ursus piscator, 231.
pruinosus, 225.
spelæus, 228.
thibetanus, 216.
torquatus, 218.
yesoensis, 227.

V

Viverra mungo, 27.
Viverricula, 26.
vole, Townsend, 141.
Vulpes, 12.

W

walrus, 120.
wapiti, 20.
Warren, E. R., Notes on wood rat work, 233.
water-rat, Florida, 65, 79.
weasel, 12
mountain, 12.
whale, Baird's, 120.
bowhead, 120.
humpback, 120.
killer, 120.
sulphur-bottom, 120.
wolverine, 182.

X

Xenogale, 26.
microdon, 26, 27.

Z

Zaëdyus pichiy, 33.
Zapus oregonus, 17.

forestry
Am. Soc. Mammal.
12-3-28
18467

CONTENTS OF VOLUME 1

Number 1

PAGE

Bats from Mount Whitney, California.....*Glover M. Allen* 1
Criteria for the Recognition of Species and Genera.....*C. Hart Merriam* 6
The Mammals of Southeastern Washington.....*Lee Raymond Dice* 10
Preliminary Notes on African Carnivora.....*J. A. Allen* 23
A New Subspecies of Beaver from North Dakota.....*Vernon Bailey* 31
Names of Some South American Mammals.....*Wilfred H. Osgood* 33
Notes on the Fox Squirrels of Southeastern United States..*Arthur H. Howell* 36
General Notes..... 38
Recent Literature..... 43
Editorial Comment..... 47
By-Laws and Rules of the American Society of Mammalogists..... 49

Number 2

Migrations of the Graysquirrel.....*Ernest Thompson Seton* 53
An Apparent Effect of Winter Inactivity upon Distribution of Mammals
Hartley H. T. Jackson 58
The Florida Water-Rat in Okofinokee Swamp.....*Francis Harper* 65
For a Methodic Study of Life-Histories.....*Ernest Thompson Seton* 67
Identity of the Bean Mouse of Lewis and Clark.....*Vernon Bailey* 70
A New Fossil Rodent from the Oligocene of South Dakota
Gerrit S. Miller, Jr., and James W. Gidley 73
The Status of Pennant's Mexican Deer.....*Wilfred H. Osgood* 75
A New Race of the Florida Water-Rat.....*Arthur H. Howell* 79
New Rodents and New Bats from Neotropical Regions.....*H. E. Anthony* 81
General Notes..... 87
Recent Literature..... 97
Correspondence..... 104
Editorial Comment..... 108

Number 3

Contribution to the Life-History of the California Mastiff Bat
A. Brazier Howell 111
Mammals of the St. Matthew Islands, Bering Sea.....*G. Dallas Hanna* 118
Nests of the Western Fox Squirrel.....*H. L. Stoddard* 122
The Test of the Subspecies.....*P. A. Taverner* 124
Old and New Horns of the Prong-horned Antelope.....*Vernon Bailey* 128
Skull Measurements in the Northern Virginia Deer.....*John C. Phillips* 130
Notes on the Breeding Habits of Captive Deermice..*Ernest Thompson Seton* 134

General Notes 139
Recent Literature 146
Correspondence 157
Editorial Comment 159

NUMBER 4

Bison Remains from New England ..... *Glover M. Allen* 161
Notes on Two Species of Phenacomys in Oregon ..... *Stanley G. Jewett* 165
A New Genus of Rodents from the Middle Eocene ..... *W. D. Matthew* 168
Some Californian Experiences with Bat Roosts ..... *A. Brazier Howell* 169
A New Kangaroo Rat from the San Joaquin Valley, California
Joseph Grinnell 178
A New Meadow Mouse from the Cascade Mountains of Washington
Walter P. Taylor 180
General Notes 182
Recent Literature 188
Correspondence 196
Editorial Comment 197
Second Annual Meeting of the American Society of Mammalogists 199
List of Members 201

NUMBER 5

Notes on Heude's Bears in the Sikawei Museum, and on the Bears of Palæarctic Eastern Asia ..... *Arthur de Carle Sowerby* 213
Notes on Wood Rat Work ..... *Edward R. Warren* 233
An Insular Race of Cotton Rat from the Florida Keys ..... *Glover M. Allen* 235
Description of a New Species of Beach Mouse from Florida
Arthur H. Howell 237
General Notes 240
Recent Literature 245
Editorial Comment 250
Index to Volume 1 253

LIST OF PLATES IN VOLUME 1

		FACING PAGE
1. 2.	Plant and animal habitats in southeastern Washington	22
3.	Haunts of Neofiber alleni	66
4.	Type specimen of Odocoileus mexicanus	78
5. 6.	California mastiff bat	116
7.	Nest of the western fox squirrel	122
8.	Old and new horns of prong-horned antelope	128
9.	Bat cave in Los Angeles County, California	176
10. 11.	Wood rat work in Colorado	234